Employer Management Solutions, Inc., d/b/a EMS Consulting

Special Item No. 132-51 Information Technology Professional Services
Special Item No. 132-40 Cloud Computing Services

Note: All non-professional labor categories must be incidental to and used solely to support hardware, software and/or professional services, and cannot be purchased separately.

SPECIAL ITEM NUMBER 132-40 - CLOUD COMPUTING SERVICES

SPECIAL ITEM NUMBER 132-51 - INFORMATION TECHNOLOGY (IT) PROFESSIONAL SERVICES

FSC/PSC Class D301 IT AND TELECOM- FACILITY OPERATION AND MAINTENANCE
FSC/PSC Class D302 IT AND TELECOM- SYSTEMS DEVELOPMENT
FSC/PSC Class D306 IT AND TELECOM- SYSTEMS ANALYSIS
FSC/PSC Class D307 IT AND TELECOM- IT STRATEGY AND ARCHITECTURE
FSC/PSC Class D308 IT AND TELECOM- PROGRAMMING
FSC/PSC Class D316 IT AND TELECOM- TELECOMMUNICATIONS NETWORK MANAGEMENT
FSC/PSC Class D317 IT AND TELECOM- WEB-BASED SUBSCRIPTION
FSC/PSC Class D399 IT AND TELECOM- OTHER IT AND TELECOMMUNICATIONS

Note 1: All non-professional labor categories must be incidental to and used solely to support hardware, software and/or professional services, and cannot be purchased separately.

Note 2: Offerors and Agencies are advised that the Group 70 – Information Technology Schedule is _not_ to be used as a means to procure services which properly fall under the Brooks Act. These services include, but are not limited to, architectural, engineering, mapping, cartographic production, remote sensing, geographic information systems, and related services. FAR 36.6 distinguishes between mapping services of an A/E nature and mapping services which are not connected nor incidental to the traditionally accepted A/E Services.

Note 3: This solicitation is not intended to solicit for the reselling of IT Professional Services, except for the provision of implementation, maintenance, integration, or training services in direct support of a product. Under such circumstances the services must be performance by the publisher or manufacturer or one of their authorized agents.

EMS CONSULTING
5550 W EXECUTIVE DR STE 450
TAMPA FL 33609-1045

(813) 287-2486

http://www.consultems.com/

Contract Number: GS-35F-419AA

Period Covered by Contract: June 12, 2013 —June 11, 2018

General Services Administration Federal Acquisition Service

Pricelist current through Modification # PA-0011

Products and ordering information in this Authorized Information Technology Schedule Pricelist are also available on the GSA Advantage! System (http://www.gsaadvantage.gov).

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INFORMATION FOR ORDERING ACTIVITIES
APPLICABLE TO ALL SPECIAL ITEM NUMBERS

SPECIAL NOTICE TO AGENCIES: Small Business Participation

SBA strongly supports the participation of small business concerns in the Federal Acquisition Service. To enhance Small Business Participation SBA policy allows agencies to include in their procurement base and goals, the dollar value of orders expected to be placed against the Federal Supply Schedules, and to report accomplishments against these goals.

For orders exceeding the micropurchase threshold, FAR 8.404 requires agencies to consider the catalogs/pricelists of at least three schedule contractors or consider reasonably available information by using the GSA Advantage!ä on-line shopping service (www.gsaadvantage.gov). The catalogs/pricelists, GSA Advantage!ä and the Federal Acquisition Service Home Page (www.gsa.gov/fas) contain information on a broad array of products and services offered by small business concerns.

This information should be used as a tool to assist ordering activities in meeting or exceeding established small business goals. It should also be used as a tool to assist in including small, small disadvantaged, and women-owned small businesses among those considered when selecting pricelists for a best value determination.

For orders exceeding the micropurchase threshold, customers are to give preference to small business concerns when two or more items at the same delivered price will satisfy their requirement.

1.   **GEOGRAPHIC SCOPE OF CONTRACT:**

Domestic delivery is delivery within the 48 contiguous states, Alaska, Hawaii, Puerto Rico, Washington, DC, and U.S. Territories. Domestic delivery also includes a port or consolidation point, within the aforementioned areas, for orders received from overseas activities.

Overseas delivery is delivery to points outside of the 48 contiguous states, Washington, DC, Alaska, Hawaii, Puerto Rico, and U.S. Territories.

Offerors are requested to check one of the following boxes:
      [ ]   The Geographic Scope of Contract will be domestic and overseas delivery.
      [ ]   The Geographic Scope of Contract will be overseas delivery only.
      [X]   The Geographic Scope of Contract will be domestic delivery only.

For Special Item Number 132-53 Wireless Services ONLY, if awarded, list the limited geographic coverage area:
_____

2.   **CONTRACTOR'S ORDERING ADDRESS AND PAYMENT INFORMATION:**

             EMPLOYER MANAGEMENT SOLUTIONS, INC.
             Attention : Angela May
             5550 W EXECUTIVE DR STE 450
             TAMPA FL 33609-1045

Contractor must accept the credit card for payments equal to or less than the micro-purchase for oral or written orders under this contract. The Contractor and the ordering agency may agree to use the credit card for dollar amounts over the micro-purchase threshold (See GSAR 552.232-79 Payment by Credit Card). In addition, bank account information for wire transfer payments will be shown on the invoice.

The following telephone number(s) can be used by ordering activities to obtain technical and/or ordering assistance:
             813-287-2486

3. LIABILITY FOR INJURY OR DAMAGE

The Contractor shall not be liable for any injury to ordering activity personnel or damage to ordering activity property arising from the use of equipment maintained by the Contractor, unless such injury or damage is due to the fault or negligence of the Contractor.

4. STATISTICAL DATA FOR GOVERNMENT ORDERING OFFICE COMPLETION OF STANDARD FORM 279:

    Block 9: G. Order/Modification Under Federal Schedule Contract
    Block 16: Data Universal Numbering System (DUNS) Number: 041613097
    Block 30: Type of Contractor: B. Other Small Business
    Block 31: Woman-Owned Small Business - Yes
    Block 37: Contractor's Taxpayer Identification Number (TIN): ASK CONTRACTOR
    Block 40: Veteran Owned Small Business (VOSB) -   No

4a.   CAGE Code: 1MPD7
4b.   Contractor has registered with the Central Contractor Registration Database.

5. FOB DESTINATION

6. DELIVERY SCHEDULE

a.   TIME OF DELIVERY: The Contractor shall deliver to destination within the number of calendar days after receipt of order (ARO), as set forth below:

SPECIAL ITEM NUMBER	DELIVERY TIME (Days ARO)
132-51 & 132-40	As negotiated on a task-order basis

b.   URGENT REQUIREMENTS: When the Federal Supply Schedule contract delivery period does not meet the bona fide urgent delivery requirements of an ordering activity, ordering activities are encouraged, if time permits, to contact the Contractor for the purpose of obtaining accelerated delivery. The Contractor shall reply to the inquiry within 3 workdays after receipt. (Telephonic replies shall be confirmed by the Contractor in writing.) If the Contractor offers an accelerated delivery time acceptable to the ordering activity, any order(s) placed pursuant to the agreed upon accelerated delivery time frame shall be delivered within this shorter delivery time and in accordance with all other terms and conditions of the contract.

7. DISCOUNTS: Prices shown are NET Prices; Basic Discounts have been deducted.

    a.   Prompt Payment: 0% - 30 days from receipt of invoice or date of acceptance, whichever is later.

    b.   Quantity: None

    c.   Dollar Volume: None

    d.   Other Special Discounts (i.e. Government Education Discounts, etc.): None

8. TRADE AGREEMENTS ACT OF 1979, as amended:

All items are U.S. made end products, designated country end products, Caribbean Basin country end products, Canadian end products, or Mexican end products as defined in the Trade Agreements Act of 1979, as amended.

9.   STATEMENT CONCERNING AVAILABILITY OF EXPORT PACKING: N/A (Services contract)

10.   Small Requirements: The minimum dollar of orders to be issued is $100.

11.   MAXIMUM ORDER (All dollar amounts are exclusive of any discount for prompt payment.)

a.   The Maximum Order for the following Special Item Numbers (SINs) is $500,000:

Special Item Number 132-51 - Information Technology Professional Services

Special Item Number 132-40 - Cloud Computing Services

12.   ORDERING PROCEDURES FOR FEDERAL SUPPLY SCHEDULE CONTRACTS

Ordering activities shall use the ordering procedures of Federal Acquisition Regulation (FAR) 8.405 when placing an order or establishing a BPA for supplies or services. These procedures apply to all schedules.

a.   FAR 8.405-1 Ordering procedures for supplies, and services not requiring a statement of work.

b.   FAR 8.405-2 Ordering procedures for services requiring a statement of work.

13.   FEDERAL INFORMATION TECHNOLOGY/TELECOMMUNICATION STANDARDS REQUIREMENTS: ordering activities acquiring products from this Schedule must comply with the provisions of the Federal Standards Program, as appropriate (reference: NIST Federal Standards Index). Inquiries to determine whether or not specific products listed herein comply with Federal Information Processing Standards (FIPS) or Federal Telecommunication Standards (FED-STDS), which are cited by ordering activities, shall be responded to promptly by the Contractor.

13.1   FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATIONS (FIPS PUBS): Information Technology products under this Schedule that do not conform to Federal Information Processing Standards (FIPS) should not be acquired unless a waiver has been granted in accordance with the applicable "FIPS Publication." Federal Information Processing Standards Publications (FIPS PUBS) are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Information concerning their availability and applicability should be obtained from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22161. FIPS PUBS include voluntary standards when these are adopted for Federal use. Individual orders for FIPS PUBS should be referred to the NTIS Sales Office, and orders for subscription service should be referred to the NTIS Subscription Officer, both at the above address, or telephone number (703) 487-4650.

13.2   FEDERAL TELECOMMUNICATION STANDARDS (FED-STDS): Telecommunication products under this Schedule that do not conform to Federal Telecommunication Standards (FED-STDS) should not be acquired unless a waiver has been granted in accordance with the applicable "FED-STD." Federal Telecommunication Standards are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Ordering information and information concerning the availability of FED-STDS should be obtained from the GSA, Federal Acquisition Service, Specification Section, 470 East L'Enfant Plaza, Suite 8100, SW, Washington, DC 20407, telephone number (202)619-8925. Please include a self-addressed mailing label when requesting information by mail. Information concerning their applicability can be obtained by writing or calling the U.S. Department of Commerce, National Institute of Standards and Technology, Gaithersburg, MD 20899, telephone number (301)975-2833.

14.   CONTRACTOR TASKS / SPECIAL REQUIREMENTS (C-FSS-370) (NOV 2003)

(a)   Security Clearances: The Contractor may be required to obtain/possess varying levels of security clearances in the performance of orders issued under this contract. All costs associated with obtaining/possessing such security clearances should be factored into the price offered under the Multiple Award Schedule.

(b)   Travel: The Contractor may be required to travel in performance of orders issued under this contract. Allowable travel and per diem charges are governed by Pub .L. 99-234 and FAR Part 31, and are reimbursable by the ordering agency or can be priced as a fixed price item on orders placed under the Multiple Award Schedule. Travel in performance of a task order will only be reimbursable to the extent authorized by the ordering agency. The Industrial Funding Fee does NOT apply to travel and per diem charges.

(c)   Certifications, Licenses and Accreditations: As a commercial practice, the Contractor may be required to obtain/possess any variety of certifications, licenses and accreditations for specific FSC/service code classifications offered. All costs associated with obtaining/ possessing such certifications, licenses and accreditations should be factored into the price offered under the Multiple Award Schedule program.

(d)   Insurance: As a commercial practice, the Contractor may be required to obtain/possess insurance coverage for specific FSC/service code classifications offered. All costs associated with obtaining/possessing such insurance should be factored into the price offered under the Multiple Award Schedule program.

(e)   Personnel: The Contractor may be required to provide key personnel, resumes or skill category descriptions in the performance of orders issued under this contract. Ordering activities may require agency approval of additions or replacements to key personnel.

(f)   Organizational Conflicts of Interest: Where there may be an organizational conflict of interest as determined by the ordering agency, the Contractor's participation in such order may be restricted in accordance with FAR Part 9.5.

(g)   Documentation/Standards: The Contractor may be requested to provide products or services in accordance with rules, regulations, OMB orders, standards and documentation as specified by the agency's order.

(h)   Data/Deliverable Requirements: Any required data/deliverables at the ordering level will be as specified or negotiated in the agency's order.

(i)   Government-Furnished Property: As specified by the agency's order, the Government may provide property, equipment, materials or resources as necessary.

(j)   Availability of Funds: Many Government agencies' operating funds are appropriated for a specific fiscal year. Funds may not be presently available for any orders placed under the contract or any option year. The Government's obligation on orders placed under this contract is contingent upon the availability of appropriated funds from which payment for ordering purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are available to the ordering Contracting Officer.

(k)   Overtime: For professional services, the labor rates in the Schedule should not vary by virtue of the Contractor having worked overtime. For services applicable to the Service Contract Act (as identified in the Schedule), the labor rates in the Schedule will vary as governed by labor laws (usually assessed a time and a half of the labor rate).

15.   CONTRACT ADMINISTRATION FOR ORDERING ACTIVITIES: Any ordering activity, with respect to any one or more delivery orders placed by it under this contract, may exercise the same rights of termination as might the GSA Contracting Officer under provisions of FAR 52.212-4, paragraphs (l) Termination for the ordering activity's convenience, and (m) Termination for Cause (See 52.212-4)

16.   GSA ADVANTAGE!

GSA Advantage! is an on-line, interactive electronic information and ordering system that provides on-line access to vendors' schedule prices with ordering information. GSA Advantage! will allow the user to perform various searches across all contracts including, but not limited to:

(1)   Manufacturer;

(2)   Manufacturer's Part Number; and

(3)   Product categories.

Agencies can browse GSA Advantage! by accessing the Internet World Wide Web utilizing a browser (ex.: NetScape). The Internet address is http://www.gsaadvantage.gov

17.   PURCHASE OF OPEN MARKET ITEMS

NOTE: Open Market Items are also known as incidental items, noncontract items, non-Schedule items, and items not on a Federal Supply Schedule contract. Ordering Activities procuring open market items must follow FAR 8.402(f).

For administrative convenience, an ordering activity contracting officer may add items not on the Federal Supply Multiple Award Schedule (MAS) -- referred to as open market items -- to a Federal Supply Schedule blanket purchase agreement (BPA) or an individual task or delivery order, **only if**-

(1)   All applicable acquisition regulations pertaining to the purchase of the items not on the Federal Supply Schedule have been followed (e.g., publicizing (Part 5), competition requirements (Part 6), acquisition of commercial items (Part 12), contracting methods (Parts 13, 14, and 15), and small business programs (Part 19));

(2)   The ordering activity contracting officer has determined the price for the items not on the Federal Supply Schedule is fair and reasonable;

(3)   The items are clearly labeled on the order as items not on the Federal Supply Schedule; and

(4)   All clauses applicable to items not on the Federal Supply Schedule are included in the order.

18.   CONTRACTOR COMMITMENTS, WARRANTIES AND REPRESENTATIONS

a.   For the purpose of this contract, commitments, warranties and representations include, in addition to those agreed to for the entire schedule contract:

(1)   Time of delivery/installation quotations for individual orders;

(2)   Technical representations and/or warranties of products concerning performance, total system performance and/or configuration, physical, design and/or functional characteristics and capabilities of a product/equipment/ service/software package submitted in response to requirements which result in orders under this schedule contract.

(3)   Any representations and/or warranties concerning the products made in any literature, description, drawings and/or specifications furnished by the Contractor.

b.   The above is not intended to encompass items not currently covered by the GSA Schedule contract.

c.   The maintenance/repair service provided is the standard commercial terms and conditions for the type of products and/or services awarded.

19.   OVERSEAS ACTIVITIES

The terms and conditions of this contract shall apply to all orders for installation, maintenance and repair of equipment in areas listed in the pricelist outside the 48 contiguous states and the District of Columbia, except as indicated below:

Upon request of the Contractor, the ordering activity may provide the Contractor with logistics support, as available, in accordance with all applicable ordering activity regulations. Such ordering activity support will be provided on a reimbursable basis, and will only be provided to the Contractor's technical personnel whose services are exclusively required for the fulfillment of the terms and conditions of this contract.

20.   BLANKET PURCHASE AGREEMENTS (BPAs)

The use of BPAs under any schedule contract to fill repetitive needs for supplies or services is allowable. BPAs may be

established with one or more schedule contractors. The number of BPAs to be established is within the discretion of the ordering activity establishing the BPA and should be based on a strategy that is expected to maximize the effectiveness of the BPA(s). Ordering activities shall follow FAR 8.405-3 when creating and implementing BPA(s).

21. CONTRACTOR TEAM ARRANGEMENTS

Contractors participating in contractor team arrangements must abide by all terms and conditions of their respective contracts. This includes compliance with Clauses 552.238-74, Industrial Funding Fee and Sales Reporting, i.e., each contractor (team member) must report sales and remit the IFF for all products and services provided under its individual contract.

22. INSTALLATION, DEINSTALLATION, REINSTALLATION

The Davis-Bacon Act (40 U.S.C. 276a-276a-7) provides that contracts in excess of $2,000 to which the United States or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the United States, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall received less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration or repair is segregable and exceeds $2,000, then the requirements of the Davis-Bacon Act applies.

The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8 or 132-9.

23. SECTION 508 COMPLIANCE.

I certify that in accordance with 508 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794d), FAR 39.2, and the Architectural and Transportation Barriers Compliance Board Electronic and Information Technology (EIT) Accessibility Standards (36 CFR 1194) General Services Administration (GSA), that all IT hardware/software/services are 508 compliant:

 Yes _X_____

No _____

The offeror is required to submit with its offer a designated area on its website that outlines the Voluntary Product Accessibility Template (VPAT) or equivalent qualification, which ultimately becomes the Government Product Accessibility Template (GPAT). Section 508 compliance information on the supplies and services in this contract are available at the following website address (URL): http://www.consultems.com/

The EIT standard can be found at: www.Section508.gov/.

24. PRIME CONTRACTOR ORDERING FROM FEDERAL SUPPLY SCHEDULES.

Prime Contractors (on cost reimbursement contracts) placing orders under Federal Supply Schedules, on behalf of an ordering activity, shall follow the terms of the applicable schedule and authorization and include with each order –

(a) A copy of the authorization from the ordering activity with whom the contractor has the prime contract (unless a copy was previously furnished to the Federal Supply Schedule contractor); and

(b) The following statement:

This order is placed under written authorization from _____ dated _____. In the event of any inconsistency between the terms and conditions of this order and those of your Federal Supply Schedule contract, the latter will govern.

25.   INSURANCE—WORK ON A GOVERNMENT INSTALLATION (JAN 1997)(FAR 52.228-5)

(a)   The Contractor shall, at its own expense, provide and maintain during the entire performance of this contract, at least the kinds and minimum amounts of insurance required in the Schedule or elsewhere in the contract.

(b)   Before commencing work under this contract, the Contractor shall notify the Contracting Officer in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective—

(1)   For such period as the laws of the State in which this contract is to be performed prescribe; or

(2)   Until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.

(c)   The Contractor shall insert the substance of this clause, including this paragraph (c), in subcontracts under this contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required in the Schedule or elsewhere in the contract. The Contractor shall maintain a copy of all subcontractors' proofs of required insurance, and shall make copies available to the Contracting Officer upon request.

26.   SOFTWARE INTEROPERABILITY.

Offerors are encouraged to identify within their software items any component interfaces that support open standard interoperability. An item's interface may be identified as interoperable on the basis of participation in a Government agency-sponsored program or in an independent organization program. Interfaces may be identified by reference to an interface registered in the component registry located at http://www.core.gov.

27.   ADVANCE PAYMENTS

A payment under this contract to provide a service or deliver an article for the United States Government may not be more than the value of the service already provided or the article already delivered. Advance or pre-payment is not authorized or allowed under this contract. (31 U.S.C. 3324)

TERMS AND CONDITIONS APPLICABLE TO INFORMATION TECHNOLOGY (IT) PROFESSIONAL SERVICES (SPECIAL ITEM NUMBER 132-51)

****NOTE: All non-professional labor categories must be incidental to, and used solely to support professional services, and cannot be purchased separately.*

1. SCOPE

a.   The prices, terms and conditions stated under Special Item Number 132-51 Information Technology Professional Services apply exclusively to IT Professional Services within the scope of this Information Technology Schedule.

b.   The Contractor shall provide services at the Contractor's facility and/or at the ordering activity location, as agreed to by the Contractor and the ordering activity.

2. PERFORMANCE INCENTIVES I-FSS-60 Performance Incentives (April 2000)

a.   Performance incentives may be agreed upon between the Contractor and the ordering activity on individual fixed price orders or Blanket Purchase Agreements under this contract.

b.   The ordering activity must establish a maximum performance incentive price for these services and/or total solutions on individual orders or Blanket Purchase Agreements.

c.   Incentives should be designed to relate results achieved by the contractor to specified targets. To the maximum extent practicable, ordering activities shall consider establishing incentives where performance is critical to the ordering activity's mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.

3. ORDER

a.   Agencies may use written orders, EDI orders, blanket purchase agreements, individual purchase orders, or task orders for ordering services under this contract. Blanket Purchase Agreements shall not extend beyond the end of the contract period; all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks which extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 (Deviation – May 2003) Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.

b.   All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

4. PERFORMANCE OF SERVICES

a.   The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.

b.   The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering activity.

c.   The ordering activity should include the criteria for satisfactory completion for each task in the Statement of Work or Delivery Order. Services shall be completed in a good and workmanlike manner.

d.   Any Contractor travel required in the performance of IT Services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

5.   STOP-WORK ORDER (FAR 52.242-15) (AUG 1989)

(a)   The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either-

       (1)   Cancel the stop-work order; or

       (2)   Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.

(b)   If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if-

       (1)   The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and

       (2)   The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.

(c)   If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.

(d)   If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

6.   INSPECTION OF SERVICES

In accordance with FAR 52.212-4 CONTRACT TERMS AND CONDITIONS--COMMERCIAL ITEMS (MAR 2009) (DEVIATION I - FEB 2007) for Firm-Fixed Price orders and FAR 52.212-4 CONTRACT TERMS AND CONDITIONS COMMERCIAL ITEMS (MAR 2009) (ALTERNATE I OCT 2008) (DEVIATION I – FEB 2007) applies to Time-and-Materials and Labor-Hour Contracts orders placed under this contract.

7.   RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 (Dec 2007) Rights in Data – General, may apply.

8.   RESPONSIBILITIES OF THE ORDERING ACTIVITY

Subject to security regulations, the ordering activity shall permit Contractor access to all facilities necessary to perform the requisite IT Professional Services.

9.   INDEPENDENT CONTRACTOR

All IT Professional Services performed by the Contractor under the terms of this contract shall be as an independent Contractor, and not as an agent or employee of the ordering activity.

10.   ORGANIZATIONAL CONFLICTS OF INTEREST

a.   Definitions.

"Contractor" means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract.

"Contractor and its affiliates" and "Contractor or its affiliates" refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An "Organizational conflict of interest" exists when the nature of the work to be performed under a proposed ordering activity contract, without some restriction on ordering activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor's or its affiliates' objectivity in performing contract work.

b.   To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the ordering activity, ordering activities may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations, which may require restrictions, are provided at FAR 9.508.

11.   INVOICES

The Contractor, upon completion of the work ordered, shall submit invoices for IT Professional services. Progress payments may be authorized by the ordering activity on individual orders if appropriate. Progress payments shall be based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

12.   PAYMENTS

For firm-fixed price orders the ordering activity shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for service rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to labor-hour orders placed under this contract. 52.216-31(Feb 2007) Time-and-Materials/Labor-Hour Proposal Requirements—Commercial Item Acquisition As prescribed in 16.601(e)(3), insert the following provision:

(a) The Government contemplates award of a Time-and-Materials or Labor-Hour type of contract resulting from this solicitation.

(b) The offeror must specify fixed hourly rates in its offer that include wages, overhead, general and administrative expenses, and profit. The offeror must specify whether the fixed hourly rate for each labor category applies to labor performed by—

(1) The offeror;

(2) Subcontractors; and/or

(3) Divisions, subsidiaries, or affiliates of the offeror under a common control.

13.   RESUMES

Resumes shall be provided to the GSA Contracting Officer or the user ordering activity upon request.

14.   INCIDENTAL SUPPORT COSTS

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering activity in accordance with the guidelines set forth in the FAR.

15.   APPROVAL OF SUBCONTRACTS

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

16.   DESCRIPTION OF IT PROFESSIONAL SERVICES AND PRICING

a.   The Contractor shall provide a description of each type of IT Service offered under Special Item Numbers 132-51 IT Professional Services should be presented in the same manner as the Contractor sells to its commercial and other ordering activity customers. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles (labor categories) for those individuals who will perform the service should be provided.

b.   Pricing for all IT Professional Services shall be in accordance with the Contractor's customary commercial practices; e.g., hourly rates, monthly rates, term rates, and/or fixed prices, minimum general experience and minimum education.

**TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF CLOUD
COMPUTING SERVICES**

(SPECIAL ITEM NUMBER 132 40)

1. SCOPE

The prices, terms and conditions stated under Special Item Number (SIN) 132-40 Cloud Computing Services apply exclusively to Cloud Computing Services within the scope of this Information Technology Schedule.

This SIN provides ordering activities with access to technical services that run in cloud environments and meet the NIST Definition of Cloud Computing Essential Characteristics. Services relating to or impinging on cloud that do not meet all NIST essential characteristics should be listed in other SINs.

The scope of this SIN is limited to cloud capabilities provided entirely as a service. Hardware, software and other artifacts supporting the physical construction of a private or other cloud are out of scope for this SIN. Currently, an Ordering Activity can procure the hardware and software needed to build on premise cloud functionality, through combining different services on other IT Schedule 70 SINs (e.g. 132-51).

Sub-categories in scope for this SIN are the three NIST Service Models: Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS). Offerors may optionally select a single sub-category that best fits a proposed cloud service offering. Only one sub-category may be selected per each proposed cloud service offering. Offerors may elect to submit multiple cloud service offerings, each with its own single sub-category. The selection of one of three sub-categories does not prevent Offerors from competing for orders under the other two sub-categories.
See service model guidance for advice on sub-category selection.

Sub-category selection within this SIN is optional for any individual cloud service offering, and new cloud computing technologies that do not align with the aforementioned three sub-categories may be included without a sub-category selection so long as they comply with the essential characteristics of cloud computing as outlined by NIST.

See Table 1 for a representation of the scope and sub-categories.

Table 1: Cloud Computing Services SIN

SIN Description	Sub-Categories[1]
- Commercially available cloud computing services - Meets the National Institute for Standards and Technology (NIST) definition of Cloud Computing essential characteristics - Open to all deployment models (private, public, community or hybrid), vendors specify deployment models	1. **Software as a Service (SaaS):** Consumer uses provider's applications on cloud infrastructure. Does not manage/control platform or infrastructure. Limited application level configuration may be available. 2. **Platform as a Service (PaaS):** Consumer deploys applications onto cloud platform service using provider-supplied tools. Has control over deployed applications and some limited platform configuration but does not manage the platform or infrastructure. 3. **Infrastructure as a Service (IaaS):** Consumer provisions computing resources. Has control over OS, storage, platform, deployed applications and some limited infrastructure configuration, but does not manage the infrastructure.

2. DESCRIPTION OF CLOUD COMPUTING SERVICES AND PRICING

NOTE TO CONTRACTORS: The information provided below is designed to assist Contractors in qualifying cloud computing services for this SIN and providing complete descriptions and pricing information. This language should NOT be printed as part of the Information Technology Schedule Pricelist; instead, Contractors should respond to each service requirement as it relates to each cloud computing service offered under the contract. There is guidance provided in subsequent sections of the Terms and Conditions to assist in determining how to meet these requirements. This section delineates requirements for submitting a proposal for the Cloud SIN, as well as requirements that apply to Task Orders

a. Service Description Requirements for Listing Contractors

The description requirements below are in addition to the overall Schedule 70 evaluation criteria described in SCP-FSS-001-N Instructions Applicable to New Offerors (Alternate I – MAR 2016) or SCP-FSS-001-S Instructions Applicable to Successful FSS Program Contractors, as applicable, SCP-FSS-004 and other relevant publications.

Refer to overall Schedule 70 requirements for timelines related to description and other schedule updates, including but not limited to clauses 552.238-81 – section E and clause I-FSS-600.

Table 2 summarizes the additional Contractor-provided description requirements for services proposed under the Cloud Computing Services SIN. All mandatory description requirements must be complete, and adequate according to evaluation criteria.

In addition there is one "Optional" reporting descriptions which exists to provide convenient service selection by relevant criteria. Where provided, optional description requirements must be complete and adequate according to evaluation criteria:

- The NIST Service Model provides sub-categories for the Cloud SIN and is strongly encouraged, but not required. The Service Model based sub-categories provide this SIN with a structure to assist ordering activities in locating and comparing services of interest. Contractors may optionally select the single service model most closely corresponding to the specific service offering.
- If a sub-category is selected it will be evaluated with respect to the NIST Service Model definitions and guidelines in "Guidance for Contractors".

Table 2: Cloud Service Description Requirements

#	Description Requirement	Reporting Type	Instructions
1	Provide a brief written description of how the proposed cloud computing services satisfies each individual essential NIST Characteristic	Mandatory	The cloud service must be capable of satisfying each of the five NIST essential Characteristics as outlined in NIST Special Publication 800-145. See 'GUIDANCE FOR CONTRACTORS: NIST Essential Characteristics' below in this document for detailed overall direction, as well as guidance on inheriting essential characteristics.
2	Select NIST deployment models for the cloud computing service proposed.	Mandatory	Contractors must select at least one NIST deployment model as outlined in NIST Special Publication 800-145 describing how the proposed cloud computing service is deployed. Select multiple deployment models if the service is offered in more than one deployment model. See 'GUIDANCE FOR CONTRACTORS: NIST Deployment Model' below in this document for detailed direction on how to best categorize a service for the NIST deployment models.

3	Optionally select the most appropriate NIST service model that will be the designated sub-category, or may select	Optional	Contractor may select a single NIST Service model to sub-categorize the service as outlined in NIST Special Publication 800-145. Sub-category selection is optional but recommended. See 'GUIDANCE FOR CONTRACTORS: NIST Service Model' below in

#	Description Requirement	Reporting Type	Instructions
	no sub-category.		this document for detailed direction on how to best categorize a service for the NIST IaaS, PaaS, and SaaS service models.

b. Pricing of Cloud Computing Services

All current pricing requirements for Schedule 70, including provision SCP-FSS-001-N (Section III Price Proposal), SCP-FSS-001-S, SCP-FSS-004 (Section III Price Proposal), and clause I-FSS-600 Contract Price Lists, apply. At the current time there is no provision for reducing or eliminating standard price list posting requirements to accommodate rapid cloud price fluctuations.

In addition to standard pricing requirements, all pricing models must have the core capability to meet the NIST Essential Cloud Characteristics, particularly with respect to on-demand self-service, while allowing alternate variations at the task order level at agency discretion, pursuant to the guidance on NIST Essential Characteristics.

3. RESPONSIBILITIES OF THE CONTRACTOR

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character.

a. Acceptance Testing

Any required Acceptance Test Plans and Procedures shall be negotiated by the Ordering Activity at task order level. The Contractor shall perform acceptance testing of the systems for Ordering Activity approval in accordance with the approved test procedures.

b. Training

If training is provided commercially the Contractor shall provide normal commercial installation, operation, maintenance, and engineering interface training on the system. Contractor is responsible for indicating if there are separate training charges.

c. Information Assurance/Security Requirements

The contractor shall meet information assurance/security requirements in accordance with the Ordering Activity requirements at the Task Order level.

d. Related Professional Services

The Contractor is responsible for working with the Ordering Activity to identify related professional services and any other services available on other SINs that may be associated with deploying a complete cloud solution. Any additional substantial and ongoing professional services related to the offering such as integration, migration, and other cloud professional services are out of scope for this SIN.

e. Performance of Cloud Computing Services

The Contractor shall respond to Ordering Activity requirements at the Task Order level with proposed capabilities to Ordering Activity performance specifications or indicate that only standard specifications

are offered. In all cases the Contractor shall clearly indicate standard service levels, performance and scale capabilities.

The Contractor shall provide appropriate cloud computing services on the date and to the extent and scope agreed to by the Contractor and the Ordering Activity.

f. Reporting

The Contractor shall respond to Ordering Activity requirements and specify general reporting capabilities available for the Ordering Activity to verify performance, cost and availability.

In accordance with commercial practices, the Contractor may furnish the Ordering Activity/user with a monthly summary Ordering Activity report.

4. RESPONSIBILITIES OF THE ORDERING ACTIVITY

The Ordering Activity is responsible for indicating the cloud computing services requirements unique to the Ordering Activity. Additional requirements should not contradict existing SIN or IT Schedule 70 Terms and Conditions. Ordering Activities should include (as applicable) Terms & Conditions to address Pricing, Security, Data Ownership, Geographic Restrictions, Privacy, SLAs, etc.

Cloud services typically operate under a shared responsibility model, with some responsibilities assigned to the Cloud Service Provider (CSP), some assigned to the Ordering Activity, and others shared between the two. The distribution of responsibilities will vary between providers and across service models. Ordering activities should engage with CSPs to fully understand and evaluate the shared responsibility model proposed. Federal Risk and Authorization Management Program (FedRAMP) documentation will be helpful regarding the security aspects of shared responsibilities, but operational aspects may require additional discussion with the provider.

a. Ordering Activity Information Assurance/Security Requirements Guidance

i. The Ordering Activity is responsible for ensuring to the maximum extent practicable that each requirement issued is in compliance with the Federal Information Security Management Act (FISMA) as applicable.

ii. The Ordering Activity shall assign a required impact level for confidentiality, integrity and availability (CIA) prior to issuing the initial statement of work.[2] The Contractor must be capable of meeting at least the minimum security requirements assigned against a low-impact information system in each CIA assessment area (per FIPS 200) and must detail the FISMA capabilities of the system in each of CIA assessment area.

iii. Agency level FISMA certification, accreditation, and evaluation activities are the responsibility of the Ordering Activity. The Ordering Activity reserves the right to independently evaluate, audit, and verify the FISMA compliance for any proposed or awarded Cloud Computing Services.

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1 Per Federal Information Processing Standards Publication 199 & 200 (FIPS 199, "Standards for Security Categorization of Federal Information and Information Systems") (FIPS 200, "Minimum Security Requirements for Federal Information and Information Systems"

iv. The Ordering Activity has final responsibility for assessing the FedRAMP status of the service, complying with and making a risk-based decision to grant an Authorization to Operate (ATO) for the cloud computing service, and continuous monitoring. A memorandum issued by the Office of Management and Budget (OMB) on Dec 8, 2011 outlines the responsibilities of Executive departments and agencies in the context of FedRAMP compliance. [3]

v. Ordering activities are responsible for determining any additional information assurance and security related requirements based on the nature of the application and relevant mandates.

b. Deployment Model

If a particular deployment model (Private, Public, Community, or Hybrid) is desired, Ordering Activities are responsible for identifying the desired model(s). Alternately, Ordering Activities could identify requirements and assess Contractor responses to determine the most appropriate deployment model(s).

c. Delivery Schedule

The Ordering Activity shall specify the delivery schedule as part of the initial requirement. The Delivery Schedule options are found in Information for Ordering Activities Applicable to All Special Item Numbers.

d. Interoperability

Ordering Activities are responsible for identifying interoperability requirements. Ordering Activities should clearly delineate requirements for API implementation and standards conformance.

e. Performance of Cloud Computing Services

The Ordering Activity should clearly indicate any custom minimum service levels, performance and scale requirements as part of the initial requirement.

f. Reporting

The Ordering Activity should clearly indicate any cost, performance or availability reporting as part of the initial requirement.

g. Privacy

The Ordering Activity should specify the privacy characteristics of their service and engage with the Contractor to determine if the cloud service is capable of meeting Ordering Activity requirements. For example, a requirement could be requiring assurance that the service is capable of safeguarding Personally Identifiable Information (PII), in accordance with NIST SP 800-122[4] and OMB memos M-06-16[5] and M-

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2 MEMORANDUM FOR CHIEF INFORMATION OFFICERS: Security Authorization of Information Systems in Cloud Computing Environments. December 8, 2011.

[4] NIST SP 800-122, "Guide to Protecting the Confidentiality of Personally Identifiable Information (PII)"

[5] OMB memo M-06-16: Protection of Sensitive Agency Information
http://www.whitehouse.gov/sites/default/files/omb/memoranda/fy2006/m06-16.
pdf

07-16[6] An Ordering Activity will determine what data elements constitute PII according to OMB Policy, NIST Guidance and Ordering Activity policy.

h. Accessibility

The Ordering Activity should specify the accessibility characteristics of their service and engage with the Contractor to determine the cloud service is capable of meeting Ordering Activity requirements. For example, a requirement could require assurance that the service is capable of providing accessibility based on Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d).

i. Geographic Requirements

Ordering activities are responsible for specifying any geographic requirements and engaging with the Contractor to determine that the cloud services offered have the capabilities to meet geographic requirements for all anticipated task orders. Common geographic concerns could include whether service data, processes and related artifacts can be confined on request to the United States and its territories, or the continental United States (CONUS).

j. Data Ownership and Retrieval and Intellectual Property

Intellectual property rights are not typically transferred in a cloud model. In general, CSPs retain ownership of the Intellectual Property (IP) underlying their services and the customer retains ownership of its intellectual property. The CSP gives the customer a license to use the cloud services for the duration of the contract without transferring rights. The government retains ownership of the IP and data they bring to the customized use of the service as spelled out in the FAR and related materials.

General considerations of data ownership and retrieval are covered under the terms of Schedule 70 and the FAR and other laws, ordinances, and regulations (Federal, State, City, or otherwise). Because of considerations arising from cloud shared responsibility models, ordering activities should engage with the Contractor to develop more cloud-specific understandings of the boundaries between data owned by the government and that owned by the cloud service provider, and the specific terms of data retrieval.

In all cases, the Ordering Activity should enter into an agreement with a clear and enforceable understanding of the boundaries between government and cloud service provider data, and the form, format and mode of delivery for each kind of data belonging to the government.

The Ordering Activity should expect that the Contractor shall transfer data to the government at the government's request at any time, and in all cases when the service or order is terminated for any reason, by means, in formats and within a scope clearly understood at the initiation of the service. Example cases that might require clarification include status and mode of delivery for:

- Configuration information created by the government and affecting the government's use of the cloud provider's service.
- Virtual machine configurations created by the government but operating on the cloud provider's service.

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[6] **OMB Memo M-07-16: Safeguarding Against and Responding to the Breach of Personally Identifiable Information** http://www.whitehouse.gov/sites/default/files/omb/memoranda/fy2007/m07-16.pdf

- Profile, configuration and other metadata used to configure SaaS application services or PaaS platform services.

The key is to determine in advance the ownership of classes of data and the means by which Government owned data can be returned to the Government.

k. Service Location Distribution

The Ordering Activity should determine requirements for continuity of operations and performance and engage with the Contractor to ensure that cloud services have adequate service location distribution to meet anticipated requirements. Typical concerns include ensuring that:

- Physical locations underlying the cloud are numerous enough to provide continuity of operations and geographically separate enough to avoid an anticipated single point of failure within the scope of anticipated emergency events.
- Service endpoints for the cloud are able to meet anticipated performance requirements in terms of geographic proximity to service requestors.

Note that cloud providers may address concerns in the form of minimum distance between service locations, general regions where service locations are available, etc.

l. Related Professional Services

Ordering activities should engage with Contractors to discuss the availability of limited assistance with initial setup, training and access to the services that may be available through this SIN.

Any additional substantial and ongoing professional services related to the offering such as integration, migration, and other cloud professional services are out of scope for this SIN. Ordering activities should consult the appropriate GSA professional services schedule.

5. GUIDANCE FOR CONTRACTORS

This section offers guidance for interpreting the Contractor Description Requirements in Table 2, including the NIST essential cloud characteristics, service models and deployment models. This section is not a list of requirements.

Contractor-specific definitions of cloud computing characteristics and models or significant variances from the NIST essential characteristics or models are discouraged and will **not** be considered in the scope of this SIN or accepted in response to Factors for Evaluation. The only applicable cloud characteristics, service model/subcategories and deployment models for this SIN will be drawn from the NIST 800-145 special publication. Services qualifying for listing as cloud computing services under this SIN must substantially satisfy the essential characteristics of cloud computing as documented in the NIST Definition of Cloud Computing SP 800-145[7].

Contractors must select deployment models corresponding to each way the service can be deployed. Multiple deployment model designations for a single cloud service are permitted but at least one deployment model must be selected.

[7] http://csrc.nist.gov/publications/nistpubs/800-145/SP800-145.pdf

In addition, contractors submitting services for listing under this SIN are encouraged to select a sub-category for each service proposed under this SIN with respect to a single principal NIST cloud service model that most aptly characterizes the service. Service model categorization is optional.

Both service and deployment model designations must accord with NIST definitions. Guidance is offered in this document on making the most appropriate selection.

a. NIST Essential Characteristics

General Guidance

NIST's essential cloud characteristics provide a consistent metric for whether a service is eligible for inclusion in this SIN. It is understood that due to legislative, funding and other constraints that government entities cannot always leverage a cloud service to the extent that all NIST essential characteristics are commercially available. For the purposes of the Cloud SIN, meeting the NIST essential characteristics is determined by whether each essential capability of the commercial service is available for the service, whether or not the Ordering Activity actually requests or implements the capability. The guidance in Table 3 offers examples of how services might or might not be included based on the essential characteristics, and how the Contractor should interpret the characteristics in light of current government contracting processes.

Table 3: Guidance on Meeting NIST Essential Characteristics

Characteristic	Capability	Guidance
On-demand self-service	• Ordering activities can directly provision services without requiring Contractor intervention. • This characteristic is typically implemented via a service console or programming interface for provisioning	Government procurement guidance varies on how to implement on-demand provisioning at this time. Ordering activities may approach on-demand in a variety of ways, including "not-to-exceed" limits, or imposing monthly or annual payments on what are essentially on demand services. Services under this SIN must be capable of true on-demand self-service, and ordering activities and Contractors must negotiate how they implement on demand capabilities in practice at the task order level: • Ordering activities must specify their procurement approach and requirements for on-demand service • Contractors must propose how they intend to meet the approach • Contractors must certify that on-demand self-service is technically available for their service should procurement guidance become available.
Broad Network	• Ordering activities	• Broad network access must be available without

Characteristic	Capability	Guidance
Access	are able to access services over standard agency networks • Service can be accessed and consumed using standard devices such as browsers, tablets and mobile phones	significant qualification and in relation to the deployment model and security domain of the service • Contractors must specify any ancillary activities, services or equipment required to access cloud services or integrate cloud with other cloud or non-cloud networks and services. For example a private cloud might require an Ordering Activity to purchase or provide a dedicated router, etc. which is acceptable but should be indicated by the Contractor.
Resource Pooling	• Pooling distinguishes cloud services from offsite hosting. • Ordering activities draw resources from a common pool maintained by the Contractor • Resources may have general characteristics such as regional location	• The cloud service must draw from a pool of resources and provide an automated means for the Ordering Activity to dynamically allocate them. • Manual allocation, e.g. manual operations at a physical server farm where Contractor staff configure servers in response to Ordering Activity requests, does not meet this requirement • Similar concerns apply to software and platform models; automated provisioning from a pool is required • Ordering activities may request dedicated physical hardware, software or platform resources to access a private cloud deployment service. However the provisioned cloud resources must be drawn from a common pool and automatically allocated on request.

| Rapid Elasticity | • Rapid provisioning and de-provisioning commensurate with demand | • Rapid elasticity is a specific demand-driven case of self-service
• Procurement guidance for on-demand self-service applies to rapid elasticity as well, i.e. rapid elasticity must be technically available but ordering activities and Contractors may mutually negotiate other contractual arrangements for procurement and payment.
• 'Rapid' should be understood as measured in minutes and hours, not days or weeks.
• Elastic capabilities by manual request, e.g. via a console operation or programming interface call, are required. |

Characteristic	Capability	Guidance
		• Automated elasticity which is driven dynamically by system load, etc. is optional. Contractors must specify whether automated demand-driven elasticity is available and the general mechanisms that drive the capability.
Measured Service	• Measured service should be understood as a reporting requirement that enables an Ordering Activity to control their use in cooperation with self service	• Procurement guidance for on-demand self-service applies to measured service as well, i.e. rapid elasticity must be technically available but ordering activities and Contractors may mutually designate other contractual arrangements. • Regardless of specific contractual arrangements, reporting must indicate actual usage, be continuously available to the Ordering Activity, and provide meaningful metrics appropriate to the service measured • Contractors must specify that measured service is available and the general sort of metrics and mechanisms available

Inheriting Essential Characteristics

Cloud services may depend on other cloud services, and cloud service models such as PaaS and SaaS are able to inherit essential characteristics from other cloud services that support them. For example a PaaS platform service can inherit the broad network access made available by the IaaS service it runs on, and in such a situation would be fully compliant with the broad network access essential characteristic. Services inheriting essential characteristics must make the inherited characteristic fully available at their level of delivery to claim the relevant characteristic by inheritance.

Inheriting characteristics does not require the inheriting provider to directly bundle or integrate the inherited service, but it does require a reasonable measure of support and identification. For example, the Ordering Activity may acquire an IaaS service from "Provider A" and a PaaS service from "Provider B". The PaaS service may inherit broad network access from "Provider A" but must identify and support the inherited service as an acceptable IaaS provider.

Assessing Broad Network Access

Typically broad network access for public deployment models implies high bandwidth access from the public internet for authorized users. In a private cloud deployment internet access might be considered broad access, as might be access through a dedicated shared high bandwidth network connection from the Ordering Activity, in accord with the private nature of the deployment model.

Resource Pooling and Private Cloud

All cloud resource pools are finite, and only give the appearance of infinite resources when sufficiently large, as is sometimes the case with a public cloud. The resource pool supporting a private cloud is typically smaller with more visible limits. A finite pool of resources purchased as a private cloud service qualifies as resource pooling so long as the resources within the pool can be dynamically allocated to the ultimate users of the resource, even though the pool itself appears finite to the Ordering Activity that procures access to the pool as a source of dynamic service allocation.

b. NIST Service Model

The Contractor may optionally document the service model of cloud computing (e.g. IaaS, PaaS, SaaS, or a combination thereof, that most closely describes their offering, using the definitions in The NIST Definition of Cloud Computing SP 800-145. The following guidance is offered for the proper selection of service models.

NIST's service models provide this SIN with a set of consistent sub-categories to assist ordering activities in locating and comparing services of interest. Service model is primarily concerned with the nature of the service offered and the staff and activities most likely to interact with the service. Contractors should select a single service model most closely corresponding to their proposed service based on the guidance below. It is understood that cloud services can technically incorporate multiple service models and the intent is to provide the single best categorization of the service.

Contractors should take care to select the NIST service model most closely corresponding to each service offered. Contractors should not invent, proliferate or select multiple cloud service model sub-categories to distinguish their offerings, because ad-hoc categorization prevents consumers from comparing similar offerings. Instead vendors should make full use of the existing NIST categories to the fullest extent possible.

For example, in this SIN an offering commercially marketed by a Contractor as "Storage as a Service" would be properly characterized as Infrastructure as a Service (IaaS), storage being a subset of infrastructure. Services commercially marketed as "LAMP as a Service" or "Database as a Service" would be properly characterized under this SIN as Platform as a Service (PaaS), as they deliver two kinds of platform services. Services commercially marketed as "Travel Facilitation as a Service" or "Email as a Service" would be properly characterized as species of Software as a Service (SaaS) for this SIN. However, Contractors can and should include appropriate descriptions (include commercial marketing terms) of the service in the full descriptions of the service's capabilities.

When choosing between equally plausible service model sub-categories, Contractors should consider several factors:

1) **Visibility to the Ordering Activity**. Service model sub-categories in this SIN exist to help Ordering Activities match their requirements with service characteristics. Contractors should select the most intuitive and appropriate service model from the point of view of an Ordering Activity.
2) **Primary Focus of the Service**. Services may offer a mix of capabilities that span service models in the strict technical sense. For example, a service may offer both IaaS capabilities for processing and storage, along with some PaaS capabilities for application deployment, or SaaS capabilities for specific applications. In a service mix situation the Contractor should select the service model that is their primary focus. Alternatively contractors may choose to submit multiple service offerings for the SIN, each optionally and separately subcategorized.

3) **Ordering Activity Role**. Contractors should consider the operational role of the Ordering Activity's primary actual consumer or operator of the service. For example services most often consumed by system managers are likely to fit best as IaaS; services most often consumed by application deployers or developers as PaaS, and services most often consumed by business users as SaaS.

4) **Lowest Level of Configurability.** Contractors can consider IaaS, PaaS and SaaS as an ascending hierarchy of complexity, and select the model with the lowest level of available Ordering Activity interaction. As an example, virtual machines are an IaaS service often bundled with a range of operating systems, which are PaaS services. The Ordering Activity usually has access to configure the lower level IaaS service, and the overall service should be considered IaaS. In cases where the Ordering Activity cannot configure the speed, memory, network configuration, or any other aspect of the IaaS component, consider categorizing as a PaaS service.

Cloud management and cloud broker services should be categorized based on their own characteristics and not those of the other cloud services that are their targets. Management and broker services typically fit the SaaS service model, regardless of whether the services they manage are SaaS, PaaS or IaaS. Use Table 3 to determine which service model is appropriate for the cloud management or cloud broker services, or, alternately choose not to select a service model for the service.

The guidance in Table 3 offers examples of how services might be properly mapped to NIST service models and how a Contractor should interpret the service model sub-categories.

Table 3: Guidance on Mapping to NIST Service Models

Service Model	Guidance
Infrastructure as a Service (IaaS)	Select an IaaS model for service based equivalents of hardware appliances such as virtual machines, storage devices, routers and other physical devices. • IaaS services are typically consumed by system or device managers who would configure physical hardware in a non-cloud setting • The principal customer interaction with an IaaS service is provisioning then configuration, equivalent to procuring and then configuring a physical device. Examples of IaaS services include virtual machines, object storage, disk block storage, network routers and firewalls, software defined networks. Gray areas include services that emulate or act as dedicated appliances and are directly used by applications, such as search appliances, security appliances, etc. To the extent that these services or their emulated devices provide direct capability to an application they might be better classified as Platform services (PaaS). To the extent that they resemble raw hardware and are consumed by other platform services they are better classified as IaaS.
Platform as a	Select a PaaS model for service based equivalents of complete or partial software

Service Model	Guidance

Service (PaaS)	platforms. For the purposes of this classification, consider a platform as a set of software services capable of deploying all or part of an application.

- A complete platform can deploy an entire application. Complete platforms can be proprietary or open source
- Partial platforms can deploy a component of an application which combined with other components make up the entire deployment
- PaaS services are typically consumed by application deployment staff whose responsibility is to take a completed agency application and cause it to run on the designated complete or partial platform service
- The principal customer interaction with a PaaS service is deployment, equivalent to deploying an application or portion of an application on a software platform service.
- A limited range of configuration options for the platform service may be available.

Examples of complete PaaS services include:

- A Linux/Apache/MySQL/PHP (LAMP) platform ready to deploy a customer PHP application,
- a Windows .Net platform ready to deploy a .Net application,
- A custom complete platform ready to develop and deploy an customer application in a proprietary language
- A multiple capability platform ready to deploy an arbitrary customer application on a range of underlying software services.

The essential characteristic of a complete PaaS is defined by the customer's ability to deploy a complete custom application directly on the platform.

PaaS includes partial services as well as complete platform services. Illustrative examples of individual platform enablers or components include:

- A database service ready to deploy a customer's tables, views and procedures,
- A queuing service ready to deploy a customer's message definitions
- A security service ready to deploy a customer's constraints and target applications for continuous monitoring

The essential characteristic of an individual PaaS component is the customer's ability to deploy their unique structures and/or data onto the component for a partial platform function.

Note that both the partial and complete PaaS examples all have two things in

Service Model	Guidance
	common: • They are software services, which offer significant core functionality out of the box • They must be configured with customer data and structures to deliver results As noted in IaaS, operating systems represent a grey area in that OS is definitely a platform service, but is typically bundled with IaaS infrastructure. If your service provides an OS but allows for interaction with infrastructure, please sub-categorize it as IaaS. If your service "hides" underlying infrastructure, consider it as PaaS.
Software as a Service (SaaS)	Select a SaaS model for service based equivalents of software applications. • SaaS services are typically consumed by business or subject-matter staff who would interact directly with the application in a non-cloud setting • The principal customer interaction with a SaaS service is actual operation and consumption of the application services the SaaS service provides. Some minor configuration may be available, but the scope of the configuration is limited to the scope and then the permissions of the configuring user. For example an agency manager might be able to configure some aspects of the application for their agency but not all agencies. An agency user might be able to configure some aspects for themselves but not everyone in their agency. Typically only the Contractor would be permitted to configure aspects of the software for all users. Examples of SaaS services include email systems, business systems of all sorts such as travel systems, inventory systems, etc., wiki's, websites or content management systems, management applications that allow a customer to manage other cloud or non-cloud services, and in general any system where customers interact directly for a business purpose. Gray areas include services that customers use to configure other cloud services, such as cloud management software, cloud brokers, etc. In general these sorts of systems should be considered SaaS, per guidance in this document.

c. Deployment Model

Deployment models (e.g. private, public, community, or hybrid) are not restricted at the SIN level and any specifications for a deployment model are the responsibility of the Ordering Activity.

Multiple deployment model selection is permitted, but at least one model must be selected. The guidance in Table 4 offers examples of how services might be properly mapped to NIST deployment models and how the Contractor should interpret the deployment model characteristics. Contractors should take care to select the range of NIST deployment models most closely corresponding to each service offered.

Note that the scope of this SIN does not include hardware or software components used to construct a cloud, only cloud capabilities delivered as a service, as noted in the Scope section.

Table 4: Guidance for Selecting a Deployment Model

Deployment Model	Guidance
Private Cloud	The service is provided exclusively for the benefit of a definable organization and its components; access from outside the organization is prohibited. The actual services may be provided by third parties, and may be physically located as required, but access is strictly defined by membership in the owning organization.
Public Cloud	The service is provided for general public use and can be accessed by any entity or organization willing to contract for it.
Community Cloud	The service is provided for the exclusive use of a community with a definable shared boundary such as a mission or interest. As with private cloud, the service may be in any suitable location and administered by a community member or a third party.
Hybrid Cloud	The service is composed of one or more of the other models. Typically hybrid models include some aspect of transition between the models that make them up, for example a private and public cloud might be designed as a hybrid cloud where events like increased load permit certain specified services in the private cloud to run in a public cloud for extra capacity, e.g. bursting.

FACTORS FOR EVALUATION

FOR IT SCHEDULE 70 CLOUD COMPUTING SERVICES SIN

The following technical evaluation factor applies in addition to the standard Schedule 70 evaluation factors outlined in CI-FSS-152-N Additional Evaluation Factors for New Offerors Under Schedule 70 or CI-FSS-152-S Additional Evaluation Factors for Successful FSS Program Contractors Under Schedule 70 and related documents and applies solely to the Cloud Computing Services SIN. A template will be provided at the time of

solicitation refresh to complete the requested documentation.

FACTOR - Cloud Computing Services Adherence to Essential Cloud Characteristics

Within a two page limitation for each cloud service submitted, provide a description of how the cloud computing service meets each of the five essential cloud computing characteristics as defined in described in National Institute of Standards and Technology (NIST) Special Publication 800-145 and subsequent versions of this publication. This standard specifies the definition of cloud computing for the use by Federal agencies. The cloud service must be capable of satisfying each of the five NIST essential Characteristics as follows:

- o On-demand self-service
- o Broad network access
- o Resource Pooling
- o Rapid Elasticity
- o Measured Service

Refer to the 'Guidance for Contractors' section of the Terms & Conditions for the Cloud Computing Services SIN for guidance on meeting the NIST characteristics. For the purposes of the Cloud Computing Services SIN, meeting the NIST essential characteristics is concerned primarily with whether the underlying capability of the commercial service is available, whether or not an Ordering Activity actually requests or implements the capability.

FACTOR – Cloud Computing Services Deployment Model

For each cloud service submitted, provide a written description of how the proposed service meets the NIST definition of a particular deployment model (Public, Private, Community, or Hybrid), within a one half (1/2) page limitation for each designated deployment model of each cloud service submitted. Multiple deployment model selection is permitted, but at least one model must be indicated.

Refer to the 'Guidance for Contractors' section of the Terms & Conditions for the Cloud Computing Services SIN for guidance on identifying the appropriate deployment model according to the NIST service model definitions.

FACTOR - Cloud Computing Services Service Model

For each cloud computing service proposed to be categorized under a specific sub-category (IaaS, PaaS or SaaS), provide a written description of how the proposed service meets the NIST definition of that service model, within a half (1/2) page limitation for each cloud service submitted.

Refer to the 'Guidance for Contractors' section of the Terms & Conditions for the Cloud Computing Services SIN for guidance on categorizing the service into a sub-category according to the NIST service model definitions.

Note that it is not mandatory to select a sub-category, and therefore this factor for evaluation applies ONLY to cloud services proposed to fall under a specific sub-category. If no sub-category is selected, this factor does not need to be addressed. The two other factors ('Adherence to Essential Cloud Characteristics' and 'Cloud Computing Services Deployment Model') apply to all cloud services.

Labor Category	Years of Experience	Functional Responsibility	Educational Require-ments	Rate per Hour
ADF Developer	3 years minimum experience	Responsible for the development, customization, and support of IT solutions for the purpose of facilitating business processes. The prima focus will be on a Java-based customer portal. Individual will be invo ed in all phases of the software development lifecycle. Responsibilities w include database, web, application, and integration development. Primary Skills: • Strong Experience with Oracle Application Development Framework ADF and Fusion Middleware. • Service Orientated Architecture (SOA). • Experience with Business Process Execution Language (BPEL), Busine Process Management (BPM), and Business Activity Monitoring (BAM). • Developing BPEL processes and Enterprise Service Bus (ESB) WebServices. • Oracle JDeveloper 11G, J2EE and Oracle WebLogic Server (11g). • Oracle WebCenter and WebCenter Spaces, Oracle Portal and Forms SOA, OAF. • Experience with J2EE, ADF (Faces), ADF BC, ADF Tasks Flows / Por ts, Web Services, XML, Parsers XML (DOM/SAX), IDE: JDeveloper. • J2EE applications using JSF Portal. • Experience with WebServices. Secondary Skills: • Experience developing business processes (BPEL), participating in process modeling (BPA) and design workshops. • Identifying opportunities for process improvement in working with process analysts and the business users. • Strong experience with documenting the processes to be modeled d implemented. • Experience creating process models in Oracle BPM using the Oracle Business Process Architect software.	Bachelor's Degree in Computer Science or Information Technology	$ 161.26
Applications DBA	4 years experience	Performing applications DBA tasks such as installing and administrating off the shelf applications, applying database patches, and providing general database support. · database administration · applications system administration · database security administration · operating system configuration for database (UNIX/LINUS, AIX, Windows)	Bachelor's Degree	$ 131.94

Labor Category	Years of Experience	Functional Responsibility	Educational Require-ments	Rate per Hour
Business Process Management Architect	7 years minimum experience	Full life cycle design and implementation of Oracle Business Process Management (BPM) Primary Skills: Oracle BPM 11g, BPM fundamentals, design and runtime. BPM process modeling, simulation, analytics, business rules and workflow.*BPEL, XML Secondary Skills: BPM several full implementations, Modeling, Simulation, Implementation, 11g required, Analytics and BAM, Process Composer, Business Rules, Human Workflow, Workflow User Interfaces with ADFs. EMS-IC	Bachelor's Degree	$ 180.81
Business Process Management Engineer	3 years experience	Implementation of Oracle Business Process Management (BPM) or related systems. Including development and deployment of solutions involving business process management systems.	Bachelor's Degree	$ 180.81
Content Management Engineer	5 years experience	Full lifecycle design and implementation of Oracle Universal Content Management (UCM) or related systems. Experience in Oracle UCM Component Architecture and Development Oracle Universal Content Management (UCM) / Stellent or like systems including: Content Server, Site Studio, In-Bound Refinery, Dynamic Converter, Desktop Integration Suite, Batch Loader, Universal Records Management (URM), Image & Processing Management (IPM), Digital Asset Management (DAM) and IDOC programming. Oracle UCM API experience including IDOCScript, IDCCCommand, Json, CIS and RIDC. Strong JAVA development skills with experience in Webservices. Technical architecture design skills. Experience with both internet/extranet redesign and specific design experience using content management products. Capable of completing documentation / discovery around the initial design and be capable of managing the installation and configuration of the necessary UCM components. Secondary Skills: Excellent communication skills both written and verbal. Ability to lead customer facing technical design sessions. Manage a small development team.	Bachelor's Degree	$ 180.81

Labor Category	Years of Experience	Functional Responsibility	Educational Require-ments	Rate per Hour
ERP Functional Lead	6 or more years of related functional experience or general IT experience and at least two years of specific application experience (e.g., PeopleSoft, SAP, Oracle). Has a broad spectrum of experience and knowledge across client s industry (e.g., federal, state, local) business processes and the JFMIP certification process.	Leads/manages the application configuration and functional use of commercial-off-the-shelf (COTS) enterprise applications. Responsible for identifying and documenting all functional requirements associated with implementing the application. Develops a comprehensive functional description of current and future system and process requirements through structured interviews, fit/gap sessions, focus groups, documentation review and other data gathering techniques. Interfaces with technical personnel to identify specific system requirements and risks. Works directly with client functional staff members to identify specific application views and data requirements to ensure that the fin system incorporates required functionality	Bachelor's Degree	$ 166.15
ERP Technical Lead	4 or more years of related technical experience or general IT experience and at least two years of specific application experience (e.g., PeopleSoft, SAP, Oracle).	Leads/manages the application configuration and use of commercial-off-the-shelf (COTS) enterprise applications. Responsible for identifying and documenting the strategy for implementing the application. Directs staff to develop and review comprehensive technicall description of current and future system and process requirements through structured interviews, fit/gap sessions, focus groups, documentation review and other data gathering techniques. Works directly with client management and functional staff members to identify specific application views and data requirements to ensur that the final system incorporates required functionality. In-depth knowledge across multiple application modules in addition to five or more years of related functional experience or general IT experience and over two years of specific application experience (e.g., PeopleSoft, SAP, Oracle). Ha managed the functional/technical design/architecture of one or more implementations of an ERP solution and has a broad spectrum of experience and knowledge across many business processes.	Bachelor's Degree	$ 131.94

Labor Category	Years of Experience	Functional Responsibility	Educational Require-ments	Rate per Hour
Image Processing Management Engineer	3 years experience	Implementation of Oracle Universal Content Management (UCM) or related systems. Including development and deployment of solutions involving content management systems. Implements image process management solutions. Experience in development of solutions from specifications	Bachelor's Degree	$ 180.81
Oracle Identity Manager Architect	3 years of experience with identity management products	• Serve as lead manager of Identity Management implementation team. • Design and architect overall IAM solution and understanding of system interoperability from an architectural and design perspective. • Document detailed technical requirements and functional specifications directly with client team. • Develop code in Java and C++ for system applications. • Participate in detailed design architecture and implementing analysis that will identify requirements related to people, processes and technology. • Implement or lead the implementation of the technical infrastructure. • Develop procedures and scripts for continuous improvement and maintenance activities related to databases. • Research technical problems and assist in identifying solutions. • Integrate technical and application components. • Participate in identifying configuration changes. • Participate in implementing all systems to deploy an application. • Maintain, tune and repair applications and provide user support. • Provide support to project type work and put together work plans and task management. • Masters or Bachelors degree in Computer Science. • Requires a minimum of • Experience with the design and architecture of Identity Management product desirable. • Proficiency in programming in Javascript, Java and C++. • Experience with application servers such as Oracle Application Server, BEA WebLogic, JBOSS or Tomcat. Advanced written and verbal communication skills. • Demonstrated integrity within a professional environment. • Ability to travel up to 70% at times to client locations.	Bachelor's Degree	$ 171.03

Labor Category	Years of Experience	Functional Responsibility	Educational Require-ments	Rate per Hour
Oracle Identity Manager Developer	5 years experience implementing Oracle Identity Manager (OIM), including personal experience implementing application automation and UI configura-tion within a mature access manage-ment system.	This position is responsible for supporting the requirements gathering process, producing design based on requirements, configuration/development and management of OIM and other objects associated with OIM functionality and development lifecycle. Also involved in supporting migrations, system testing and user acceptance testing, as well as post-production application support.	Bachelor's Degree	$ 151.49
Project Manager	5 years of experience on projects, including three or more years in a leadership / management role, requiring experience in management, work estimates, resource management including resource allocation.	Responsible for managing and overseeing one large or multiple smaller projects simultaneously. Responsible for outcomes of a Project. Performs or delegates the initiation, planning, monitoring and control, and closure of Projects and/or programs. Works to ensure all project constraints are known, understands and mitigates project risks, works with project stakeholders to eliminate project issues. All work is guided to ensure projects and programs are managed in an effective manner to scope, duration (time) and cost. Ensure compliance with all applicable standards, and uses discipline project management to document and ensure approval through Project change requests, to deviations to plan. Consultant must demonstrate strong leadership and communication skills, and the ability to manage a large project (4000 or more person hours) or multiple smaller projects simultaneously. Consultant must have the ability to manage and control of project budgets and resources. Individual must work well with all levels of management, business personnel and motivate project team member. Consultant must be an excellent communicator with exceptional facilitation skills.	Bachelor's Degree	$ 201.96

Labor Category	Years of Experience	Functional Responsibility	Educational Require-ments	Rate per Hour
SOA Architect	• 5 years of related experience. • 3 years experience in SOA Platform Architecture and Develop-ment.	• Install and configure IPM/CM/Portal • Workflow development/integration with IPM and external systems • Strong problem solving skills and knowledge of WebLogic suite 11g • Participate in design sessions with project staff as required. • Participate in team reviews of design artifacts and code, make changes as required, and recommend alternative solutions where appropriate. • Design, code, unit test, system test, performance test, debug, implement, a support application systems either through new development of systems, enhancement of existing systems, or 3rd party products. Work with technical and functional teams to ensure effective delivery of systems. • Significant knowledge and experience designing and developing Enterprise Service Bus/SOA /Integration Tier Architecture (BPEL/Business Process Orchestration, Web Services, J2EE). • Strong understanding of Service Oriented Architectures. • Strong background in systems architecture and relevant technologies, including portal technologies, middleware technologies, and J2EE. • Strong skills in Services Design Best Practices, Service Performance Monitoring, Service Performance Tuning, Service Interface Specifications.	Bachelor's Degree	$ 201.96
SOA Developer	3 or more years experience with at least one of the following: • Web Services Manager • Oracle 11g OSB • Oracle 11g BPEL • Oracle BAM a plus • Knowledge of PeopleSoft Enterprise is a plus	• Participate in design sessions with project staff as required. • Build processes to support orchestration of web services. • Work with SOA development team to implement SOA components. • Participate in team reviews of design artifacts and code, make changes as required, and recommend alternative solutions where appropriate. • Design, code, unit test, system test, performance test, debug, implement, a support systems. Work with technical and functional teams to ensure effective delivery of systems. The candidate must be a skilled professional possessing a strong development background and a strong knowledge of Oracle's SOA Suite 11g, in a WebLogic Suite 11g environment. The ideal candidate will have prior experience with web service manager (WSM), BPEL and OSB formerly ASLB. They will have a good working knowledge of enterprise architecture and understand networking, Operating Systems and hardware. Candidate must have strong architectural knowledge of the Oracle SOA Stack.	Bachelor's Degree	$ 161.26

Labor Category	Years of Experience	Functional Responsibility	Educational Require-ments	Rate per Hour
Systems Architect	5 years experience with information technology technical architecture design and admini-stration	Designs, implements and/or administers technical architecture of computer systems including operating environments, database systems, web servers. This also may include design and/or administration of system or data security according to client needs.	Bachelor's Degree	$ 180.81
WebCenter Architect	• 5 years of overall web-based develop-ment experience. • 2 years experience working on portal development and implement-ations. • 5 years of experience with Web Services (XML, SOAP, WSDL). • 2 years experience in content manage-ment business require-ments gathering.	primarily responsible for assisting with the implementation of Oracle WebCenter both from the business and technical perspectives. The candidate will be responsible for participating in the delivery of web portal solutions by estimating, planning, designing, developing and implementing portal/content management-based applications. Responsibilities: • Work with business customers and other team members to translate functional requirements into technical designs. • Configuring WebCenter software to meet business requirements. • Working closely with the customer to design and configure the user interface. • Design, configure and implement workflows. • Assist with design and implementation of document security model. • Installation and configuration of web application servers and components (i.e. Tomcat, WebLogic, or Oracle Application Server). • Design and implement metadata model for content contribution, storage and retrieval. • Migrating existing portal content into WebCenter. • Experience with Oracle WebCenter (11 preferred) or WebLogic Portal. • Full systems life cycle experience: gathering requirements, system and application design, hands-on development, testing and implementation. • Experience on a development team in the deployment of both large and small applications. • Oracle ADF and ADF framework and Oracle UCM (formerly Stellent). • Must have proven client facing skills, and the ability to both work independently as well as within a team.	Bachelor's Degree	$ 180.81

Labor Category	Years of Experience	Functional Responsibility	Educational Require-ments	Rate per Hour
WebCenter Portal Engineer	5 years of experience working with (installing, maintaining and developing Oracle / Web facing portal based systems on enterprise level tools.	Oracle Webcenter Suite: • Portal, Portlets Development • Content Management • Integration with Weblogic application server, Webcenter suite setup and Administration • Webcenter framework and development tools setup and use • JSR 168, JSF,AJAX, Pageflow, WSRP Portlets • Pageflows and Inter Portlet Communication (IPC) • Content Management Repository, custom content types, data, workflow and Repositories. Database and file based repositories • Unified User Profiles (UUP), Delegated Admin, Visitor Entitlements • Multiple custom Desktops. Custom content, look and feel • Integration with SAML 2.0 and other authentication providers • Oracle Weblogic server • Implementation of portal Security roles, views and management • Languages: HTML, C, C++, Java, Java J2EE, Java / Javascript / JSP, BPEL • Web Services (SOAP, WSDL), JSF, XML, XSL, XSD, XPath • Operating System: RedHat or other Linux Experience, MS Windows • Web, Web 2.0 client / server application development • Web based – portal user interface design for usability Other – Desired experience: • Mobile device client / server application development • Oracle Webservice manager and security • Oracle FMW (Fusion Middleware) development tools for BPEL, JAVA, JDeveloper, • Oracle SOA Suite ADF, BPM, WebLogic • Oracle enterprise service bus (ESB). • Enterpriseapplication integration with Oracle eBusiness Suite, Databases, APIs and file based repositories, Oracle BPEL adapters • Database familiarity: Oracle 11g, SQL, PL/SQL, T/SQL • Data processing and delivery for smartcards or other intelligent devices using web based applications / systems • Desire and Ability to work effectively and contribute as part of a fast moving technical and business unit team. • Experienced in full SDLC (Software development life cycle) which includes System / Information Engineering, Software Requirements gathering, Systems Analysis and Design, Code Generation, Testing, implementation, maintenance and documentation.	Bachelor's Degree	$ 171.03

Labor Category	Minimum Experience (Years)	Functional Responsibilities	Minimum Education	Rate Per Hour
Salesforce Architect	10	Responsible for architecture, strategy, solutions and delivery of applications that support the Salesforce.com. This application area includes Salesforce.com, mobile (custom and purchased solutions) and other sales and service channel technologies. This position partners with the business, IT and 3rd parties to design and develop applications, which will be leveraged across the organization and integrated with other corporate divisions globally. Works closely with Project Managers, Senior Business Analysts and directly with business teams to meet client needs. Has ownership of the solution from end to end and be responsible for architecting and documenting a technical solution based on project requirements and industry best practices. Leads and mentors the development team on the project. Defines, documents and enforces sound development and governance practices and ensures the quality delivery of enterprise solutions. Serves as a trusted advisor to the business teams. Assists in supporting the platform by being available for calls as required.	Master	$235.52
Salesforce Business Analyst	10	The Salesforce Business Analyst will interface with key stakeholders, translating business requirements into SFDC. Additionally, the analysts will possess hands-on SFDC Admin skills. She/he will understand how changes may impact the entire user universe and will work to educate and provide detailed information for the purposes of governance decision making by the business. Documents business needs, distinguishes between needs and wants, identifies gaps between business needs and standard application functionality, designs and documents solutions that fill the gaps, and provides detailed business requirements specifications for developers. Performs application configuration, testing and evaluation to ensure quality and consistency. Prepares and performs data conversion requirements. Develops documents, and executes test plans to assess the integrity and accuracy of business processes, module functionality setups and modifications, enhancements, customizations, and patches. Develops, documents, and executes test plans to assess the integrity and accuracy of business processes, module functionality setups and modifications, enhancements, customizations, and patches. Develops and maintains end user training documentation and delivers training as required. Develops and maintains business process documentation and considers compliance in all business process analysis and redesign activities. Supports, analyzes, and resolves critical production	Bachelor	$214.11

Labor Category	Minimum Experience (Years)	Functional Responsibilities	Minimum Education	Rate Per Hour
Mobile Apps Engineer	5	Leads the entire app lifecycle right from concept stage until delivery and post launch support. Apps will be mainly content based and integrated closely with the web sites. In addition to delivering the product the successful candidate will be heavily involved in driving the mobile strategy globally. Acts as lead iOS and/ or Android developer. Depending on the skills set can be lead on one platform and play a supporting role across the other. Works closely with another mobile app developer leading the other platform development. Delivers across the entire app life cycle –concept, design, build, deploy, test, release to app stores and support. Works directly with developers and product managers to conceptualize, build, test and realize products. Gathers requirements around functionality and translate those requirements into elegant functional solutions. Builds prototypes at tech scoping stage of projects. Works with the front end developers to build the interface with focus on usability features. Creates compelling device specific user interfaces and experiences. Standardizes the platform and in some cases apps to deliver across multiple brands with minimal duplication of effort. Optimizes performance for the apps. Keeps up to date on the latest industry trends in the mobile technologies. Explains technologies and solutions to technical and non-technical stakeholders. Attends industry events/ conference – both attending and presenting.	Bachelor	$167.37
Salesforce Technical Lead	10	Typically serves as lead Salesforce Developer, Data Analyst, Lead Systems Engineer, Lead programmer, Lead configuration Manager, Lead technical writer, and Lead resource planner. Demonstrates significant technical competence and may perform varied and difficult tasks under supervision, conferring with supervisor. May be assisted by or may supervise more junior personnel.	Bachelor	$189.92
Salesforce Administrator	5	Supervises and manages the daily activities of configuration and operation of Salesforce based business systems. Optimizes system operation and resource utilization, and performs system capacity analysis and planning. Provides assistance to users in accessing and using business systems. Oversees the feature request/support backlog and works with the CEO and consulting partner to prioritize and execute on it. Evangelizes and drives user adoption across the organization to ensure a successful rollout. Implements enhancements and rolls out new features. Executes solution design activities such as data mapping, object modeling, page layout design and rullogic definition in the context of the Salesforce application. Creates training materials and user documentation, and maintains such documentation as business needs evolve.	Bachelor	$180.11
Solution Architect	20	This position is responsible for using various modeling techniques to communicate the essence of a business system design. Must effectively take business functions and their related information needs and produce a system architecture and initial process design. This position must also be able to design, in the form of a architecture diagram, a structure that summarizes the structure of a system graphically to act as a framework for subsequent work. Works very closely with executive and senior management in an organization.	Master	$260.80

Labor Category	Minimum Experience (Years)	Functional Responsibilities	Minimum Education	Rate Per Hour
Software Developer	10	• Design and develop new and existing front-end projects from the data layer to user experience and interaction • Work with back-end services to design API endpoints for the front-end team • Lead code refactoring and unit/integration test design • Maintain and enhance developer workflow, build process, and continuous integration for projects • Develop and support internal and external front-end web applications from beginning to end • Interact with legacy code from time to time • Build Connectors and integrate into multiple systems • Build and develop web services	Bachelor	$160.45
Sr. Enterprise Architect	20	• Data architecture: Describes data structures used by business processes or systems. This domain facilitates and enhances intra and inter systems communications for storage and transmission. Roles within this domain are closely related to software development and applications. • Applications architecture: Maps applications and business capabilities to describe how systems interact within the organization. This domain should provide mappings between users, systems, platforms and business functions. This domain is also closely related to software development and applications. • Information architecture: A hybrid between Data and Applications architecture that facilitates the modeling of data structures as they relate to business applications and capabilities. • Technical architecture: Often called Infrastructure architecture, this domain describes the behavior of infrastructure platforms and the business systems that they support. This domain is primarily concerned with end nodes (workstations), servers, networks and storage solutions and the role that this infrastructure plays in supporting business systems. Roles within this domain have a strong focus on IT infrastructure and hardware.	Master	$321.62

CLOUD PRODUCTS – SIN 132 40 (ADDED 2016)

SIN	MFR NAME	MFR PART NO	PRODUCT DESCRIPTION	GSA OFFER PRICE (inclusive of the .75% IFF)
132-40	Inspyrus Software	Inspyrus Software Licensing - 1	Invoice Automation - Inspyrus Software Licensing - Monthly Invoice Volume: 5k to 10k	$158,690.18
132-40	Inspyrus Software	Inspyrus Software Licensing - 2	Invoice Automation - Inspyrus Software Licensing - Monthly Invoice Volume: 10k to 25k	$170,025.19
132-40	Inspyrus Software	Inspyrus Software Licensing - 3	Invoice Automation - Inspyrus Software Licensing - Monthly Invoice Volume: 25k to 40k	$181,360.20
132-40	Inspyrus Software	Inspyrus Software Licensing - 4	Invoice Automation - Inspyrus Software Licensing - Monthly Invoice Volume: 40k to 125k	$194,962.22

132-40	Inspyrus Software	Inspyrus Software Licensing - 5	Invoice Automation - Inspyrus Software Licensing - Monthly Invoice Volume: 125 to 250k	$213,098.24
132-40	Inspyrus Software	Inspyrus Software Licensing - 6	Invoice Automation - Inspyrus Software Licensing - Monthly Invoice Volume: for every 25K invoices thereafter	$10,881.61
132-40	Inspyrus Software	Inspyrus Software Licensing - 7	Analytics - Inspyrus Software Licensing - Monthly Invoice Volume: 5k to 10k	$41,712.85
132-40	Inspyrus Software	Inspyrus Software Licensing - 8	Analytics - Inspyrus Software Licensing - Monthly Invoice Volume: 10k to 25k	$45,340.05
132-40	Inspyrus Software	Inspyrus Software Licensing - 9	Analytics - Inspyrus Software Licensing - Monthly Invoice Volume: 25k to 40k	$48,060.45
132-40	Inspyrus Software	Inspyrus Software Licensing - 10	Analytics - Inspyrus Software Licensing - Monthly Invoice Volume: 40k to 125k	$50,780.86
132-40	Inspyrus Software	Inspyrus Software Licensing - 11	Analytics - Inspyrus Software Licensing - Monthly Invoice Volume: 125 to 250k	$57,128.46
132-40	Inspyrus Software	Inspyrus Software Licensing - 12	Analytics - Inspyrus Software Licensing - Monthly Invoice Volume: for every 25K invoices thereafter	$2,720.40
132-40	Inspyrus Software	Inspyrus Software Licensing - 13	Multi-ERP option - Inspyrus Software Licensing - Monthly Invoice Volume: 5k to 10k	$31,738.04
132-40	Inspyrus Software	Inspyrus Software Licensing - 14	Multi-ERP option - Inspyrus Software Licensing - Monthly Invoice Volume: 10k to 25k	$36,272.04
132-40	Inspyrus Software	Inspyrus Software Licensing - 15	Multi-ERP option - Inspyrus Software Licensing - Monthly Invoice Volume: 25k to 40k	$40,806.05
132-40	Inspyrus Software	Inspyrus Software Licensing - 16	Multi-ERP option - Inspyrus Software Licensing - Monthly Invoice Volume: 40k to 125k	$45,340.05
132-40	Inspyrus Software	Inspyrus Software Licensing - 17	Multi-ERP option - Inspyrus Software Licensing - Monthly Invoice Volume: 125 to 250k	$49,874.06
132-40	Inspyrus Software	Inspyrus Software Licensing - 18	Supplier Portal Option - Inspyrus Software Licensing - Monthly Invoice Volume: 5k to 10k	$31,738.04
132-40	Inspyrus Software	Inspyrus Software Licensing - 19	Supplier Portal Option - Inspyrus Software Licensing - Monthly Invoice Volume: 10k to 25k	$36,272.04
132-40	Inspyrus Software	Inspyrus Software Licensing - 20	Supplier Portal Option - Inspyrus Software Licensing - Monthly Invoice Volume: 25k to 40k	$40,806.05

132-40	Inspyrus Software	Inspyrus Software Licensing - 21	Supplier Portal Option - Inspyrus Software Licensing - Monthly Invoice Volume: 40k to 125k	$45,340.05
132-40	Inspyrus Software	Inspyrus Software Licensing - 22	Supplier Portal Option - Inspyrus Software Licensing - Monthly Invoice Volume: 125 to 250k	$49,874.06
132-40	Inspyrus Software	Inspyrus Software Licensing - 23	E-lnvoicing Option - Inspyrus Software Licensing - Monthly Invoice Volume: 5k to 10k	$27,204.03
132-40	Inspyrus Software	Inspyrus Software Licensing - 24	E-lnvoicing Option - Inspyrus Software Licensing - Monthly Invoice Volume: 10k to 25k	$31,738.04
132-40	Inspyrus Software	Inspyrus Software Licensing - 25	E-lnvoicing Option - Inspyrus Software Licensing - Monthly Invoice Volume: 25k to 40k	$36,272.04
132-40	Inspyrus Software	Inspyrus Software Licensing - 26	E-lnvoicing Option - Inspyrus Software Licensing - Monthly Invoice Volume: 40k to 125k	$40,806.05
132-40	Inspyrus Software	Inspyrus Software Licensing - 27	E-lnvoicing Option - Inspyrus Software Licensing - Monthly Invoice Volume: 125 to 250k	$45,340.05
132-40	Inspyrus Software	Inspyrus Implementation - 1	Standard Implementation - Inspyrus Implementation - Monthly Invoice Volume: 5k to 10k	$136,020.15
132-40	Inspyrus Software	Inspyrus Implementation - 2	Standard Implementation - Inspyrus Implementation - Monthly Invoice Volume: 10k to 25k	$158,690.18
132-40	Inspyrus Software	Inspyrus Implementation - 3	Standard Implementation - Inspyrus Implementation - Monthly Invoice Volume: 25k to 40k	$181,360.20
132-40	Inspyrus Software	Inspyrus Implementation - 4	Standard Implementation - Inspyrus Implementation - Monthly Invoice Volume: 40k to 125k	$226,700.25
132-40	Inspyrus Software	Inspyrus Implementation - 5	Standard Implementation - Inspyrus Implementation - Monthly Invoice Volume: 125 to 250k	$272,040.30
132-40	Inspyrus Software	Inspyrus Implementation - 6	e-Invoicing implementation - Inspyrus Implementation - 1 format	$18,136.02
132-40	Inspyrus Software	Inspyrus Implementation - 7	e-Invoicing implementation - Inspyrus Implementation - Additional formats	$9,068.01
132-40	Inspyrus Software	Inspyrus Implementation - 8	Supplier Portal implementation - Inspyrus Implementation - 1 format	$27,204.03
132-40	Inspyrus Software	Inspyrus Implementation - 9	High Availability - Inspyrus Implementation - per environment	$13,602.02

132-40	Inspyrus Software	Inspyrus Implementation - 10	Each additional non-production environment - Inspyrus Implementation	$13,602.02
132-40	Inspyrus Software	Inspyrus Implementation - 11	SSL - Inspyrus Implementation - per environment	$9,068.01

Economic Price Adjustment Mechanism: Pursuant to IT Solicitation Clause I-FSS-969(b)(2) ECONOMIC PRICE ADJUSTMENT—FSS MULTIPLE AWARD SCHEDULE (JAN 2002), economic price adjustments are based on Bureau of Labor Statistics Table 5, Employment Cost Index for total compensation, for private industry workers, by occupational group and industry, Occupational Group: Service Providing Industries, Management, professional, and related, at http://www.bls.gov/news.release/eci.t05.htm.